

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 060953/0119

In re patent application of

Rainer HINTSCHE and Manfred PAESCHKE

Filed: September 14, 1998

U.S. National Phase PCT/DE97/00494

International Filing Date: March 12, 1997

For: DETECTION OF MOLECULES AND MOLECULE COMPLEXES

SECOND PRELIMINARY AMENDMENTAssistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Please amend the above captioned application as follows:

In the Claims

1. [Twice Amended] [Method for the detection of molecules or molecule complexes in a diluent or solvent,
- a sample to be measured being brought into contact with an ultra-microelectrode arrangement which has at least two electrode structures that are applied to or incorporated in an insulating support material and that are uncovered in the direction of the measurement and arranged relative to one another such that the distances between the various structures lie in the ultra-micro range,
- an alternating electric field being produced by application of an electric potential,
- and

- the changes in current or potential, which are caused by species present or created in the sample to be measured, being measured.]

Method for the detection of molecules or molecule complexes in a diluent or solvent comprising,

providing a sample to be measured,

bringing the sample into contact with an ultra-microelectrode arrangement which has at least two electrode structures that are applied to or incorporated in an insulating support material and that are uncovered in the direction of the measurement and arranged relative to one another such that the distances between the various structures lie in the ultra-micro range,

producing an alternating electric field by application of an electric potential, and measuring the changes in current or potential, which are caused by species present or created in the sample to be measured.

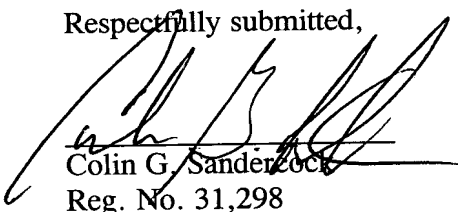
17. [Twice Amended] [Method according to one of claims 1-16, in which the insulating support material is selected from silicon compounds, glass, ceramic, organic polymers.]

Method according to claim 1, wherein the insulating support material is selected from the group consisting of silicon compounds, glass, ceramic or organic polymers.

December 22, 1998

Date

Respectfully submitted,


Colin G. Sandercock
Reg. No. 31,298

FOLEY & LARDNER
Suite 500
3000 K Street, N.W.
Washington, DC 20007-5109
Tel: (202) 672-5300
Fax: (202) 672-5399